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Patent Claims:

1. An apparatus for separating and removing raw materials following their
diminution, comprising cutting tools of diminution machines, especially
10 meat grinders, structured as separation cutting sets, the separation
cutting sets consisting of precutter, perforated discs and knives, being
structured as multiple component sets, characterized by the fact that
the apparatus is structured as an accessory consisting of an discharge
screw (3) rotating in an discharge tube (4), a receiving body (28), a
15 support and drive element (19) as well as a drive motor (9) and is
mounted to the housing (2) of the cutting set in different planes of a
meat grinder by support bodies (5; 27), the discharge screw 3 being at
one end supported in a bearing in the receiving body (28) and at its
other end in the separation and cutting set (1).
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2. The apparatus of claim 1, characterized by the fact that the accessory
is arranged in a first plane on the housing (2) of the separation and
cutting set (1) in an axial direction of feed of the separation and cutting
set (1), the discharge screw (3) being at one end received by way of a
25 pin (23) in the pin (17) of the knife shaft and the discharge tube (4)
being disposed in a bearing bush (24) provided in the perforated
separation disc (11).
3. The apparatus of claim 1 and 2, characterized by the fact that the
30 bearing bush (24) at its input side has a conical beveled input (29)
forming a passage with the discharge screw (3) and that the bearing
bush (24) is connected to the perforated separation disc (11) by a

threaded bush (25).

4. The apparatus of one of claims 1 to 3, characterized by the fact that at its output end the discharge tube (4) is provided with a curved tube (10).
5. The apparatus of claim 1, characterized by the fact that the drive motor (9) is structured as a pneumatic motor and is connected to a computer (16) which is connected to sensors provided in the measuring chamber of the cutting set housing for recording the raw material parameters for controlling the qualitative raw material separation.
6. The apparatus of claim 1, characterized by the fact that the accessory is mounted in a second plane of the cutting set housing (2) transversely of the feed direction of the separation and cutting set (1) and that the discharge screw (3) is journaled in a longitudinally divided terminal perforated separation disc (20).
7. The apparatus of claim 1 and 6, characterized by the fact that the halves of the longitudinally divided terminal perforated separation disc (2) are provided with semi-circular openings forming a bearing housing (22) in the assembled state for receiving the discharge screw (3), one half of the terminal perforated separation disc being provided with a penetrating center bore and the second half of the terminal perforated separation disc (20) being provided with a blind bore (30).
8. The apparatus of claim 1 and 6, characterized by the fact that the discharge screw (3) is disposed transversely between the outer circumference of the perforated separation disc (11) and the internal wall of the separation and cutting set housing (2), displaced 90° relative to the feed direction, the perforated separation disc (11) and coinciding with the perforated separation disc (11) the internal wall of

the separation cutting set housing (1) are provided with concave recesses which in the assembled state of the separation and cutting set (1) form the support (22) for the discharge screw (3).

- 5 8. The apparatus of claim 1, characterized by the fact that the accessory is tangentially arranged in a further plane between the internal wall of the separation and cutting set housing (2) and the out circumference of the knife (12) as well as between the perforated separation disc (11) and the perforated disc (13) in an arrangement displaced at an angle
10 <90° relative to the direction of feed of the separation and cutting set (1), and that the bearing of the discharge screw (3) is formed in the wall of the separation and cutting set housing (2).
- 15 10. The apparatus of one of claims 1 to 9, characterized by the fact that prevailing operating conditions are recorded by sensors arranged in and at the separation and cutting set housing (2) which are fed to the computer (16) where they are correlated and the drive motor (9) is energized by the computer (16) so that the discharge screw (3) is controlled independently of any operating pressure of the separation
20 and cutting set (1).

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